

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Électronic Version v18
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Title of Invention Method and apparatus for multiboard fiber optic modules and fiber optic module arrays

Application Number:

09/833163

Confirmation Number:

1535

First Named Applicant:

Edwin Dair

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Attorney Docket Number: 3918P002XX4

Art Unit:

2633

Examiner:

Search string:

Agustin Bello

(4856091 or 4912521 or 5109454 or

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
唐	1	4856091	1989-08-08	Taska			
B	2	4912521	1990-03-27	Almquist, et al.	}	· · · · · · · · · · · · · · · · · · ·	
170	3	5109454	1992-04-27	Okuno, et al.			
個	4	6369921	2002-04-09	Okuno, et al.] —		·····

Signature

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary.)
Sheet 1 of 7

Comple	ete if Known
Application Number	09/833,163
Filing Date	04/10/01
First Named Inventor	Edwin Dair, et al.
Group Art Unit	2633
Examiner Name	Unassigned
Attorney Docket Number	003918.P002XX4

U.S. PATENT DOCUMENTS

Exam.	Document				Sub-	Filing Date
Initials	Number	Date	Name	Class	class	(if appropriate)
ARS	3,792,284	2/12/74	Kaelin			
	3,809,908	5/7/74	Clanton	1		
75	3,870,396	3/11/75	Racki, et al.			
76	3,976,877	8/24/76	Thilays			
73	4,161,650	7/17/79	Caouette, et al.			
13	4,229,067	10/21/80	Love			
75	4,273,413	6/16/81	Bendikens, et al.			
あ	4,347,655	9/7/82	Zory, et al.			
<i>7</i> 8	4,419,072	4/10/79	Smith, et al.			
<i>7</i> B	4,432,604	2/21/84	Schwab			
10	4,446,515	5/1/84	Sauer, et al.			
13	4,449,244	5/15/84	Kopainsky		Ω	ECEIVED
13	4,461,537	7/24/84	Raymer, II, et al.			COLIVED
13	4,493,113	1/8/85	Forrest, et al.		M	AY 2 3 2002
A	4,533,209	8/6/85	Segerson, et al.		171	אוי אי פי לטטל
13	4,534,616	8/13/85	Bowen, et al.		Techn	ology Center 260
13	4,535,233	8/13/85	Abraham			Seal Sellis SOU
B	4,539,476	9/3/85	Donuma, et al.			
AB	4,542,076	9/17/85	Bednarz, et al.			
15	4,549,782	10/29/85	Miller			

FOREIGN PATENT DOCUMENTS

Exam. InitiAls	Document Number	Date	Country	Class	Sub- class	Transl Yes	ation No
\mathcal{B}	0 652 696 A1	11/2/94	EPO				
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Substitute for Form 1449A/PTO Complete if Known Application Number 09/833,163 INFORMATION DISCLOSURE 04/10/01 Filing Date First Named Inventor Edwin Dair, et al. STATEMENT BY APPLICANT **Group Art Unit** 2633 **Examiner Name** Unassigned (Use as many sheets as necessary.) Attorney Docket Number 003918.P002XX4 Sheet

U.S. PATENT DOCUMENTS

Exam.	Document				Sub-	Filing Date
Initials	Number	Date	Name	Class	class	(if appropriate)
10	4,549,783	10/29/85	Schmachtenberg, III			
98	4,553,811	11/19/85				
76	4,580,295	4/1/86				
76	4,595,839	6/17/86				
13	4,612,670	9/16/86				
13	4,625,333	11/25/86	Takezawa, et al.			
10	4,647,148	3/3/87	Katagiri			
13	4,678,264	7/7/87	Bowen, et al.			
13	4,720,630	1/19/88				
7	4,727,248	2/23/88	Meur, et al.			
13	4,807,955	2/28/89	Ashman, et al.			
13	4,840,451	6/20/89	Sampson, et al.			
23	4,844,581	7/4/89	Turner		F	ECEIVED
B	4,881,789	11/21/89	Levinson			
33	4,897,711	1/30/90	Blonder, et al.		N	AY 2 3 2002
12	4,913,511	4/3/90	Tabalba, et al.			1
to	4,945,229	7/31/90	Daly, et al.		Techr	ology Center 26
10	4,979,787	12/25/90	Lichtenberger			es - 141141 EU
18	4,986,625	1/22/91	Yamada, et al.			
150	4,989,934	2/5/91	Zavracky, et al.			

FOREIGN PATENT DOCUMENTS

Exam. Initials	Document Number	Date	Country	Class	Sub- class	Transl Yes	ation No
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/833,163					
Filing Date	04/10/01					
First Named Inventor	Edwin Dair, et al.					
Group Art Unit	2633					
Examiner Name	Unassigned					
Attorney Docket Number	003918.P002XX4					

U.S. PATENT DOCUMENTS

Exam.	Document	_			Sub-	Filing Date
Inipals	Number	Date	Name	Class	class	(if appropriate)
76	5,005,939	4/9/91	Arvanitakis, et al.			
43	5,011,246	4/30/91	Corradetti, et al.			
133	5,039,194	8/13/91	Block, et al.			
78	5,043,775	8/27/91	Lee			
B	5,093,879	3/3/92	Bregman, et al.			
A	5,099,307	3/24/92	Go, et al.			
A	5,104,243	4/14/92	Harding			
13	5,109,453	4/28/92	Edwards, et al.			
As .	5,117,476	5/26/92	Yingst, et al.			
16	5,122,893	6/16/92	Tolbert			
A	5,136,152	8/4/92	Lee			
A	5,155,786	10/13/92	Ecker, et al.			ECEIVED
180	5,159,190	10/27/92	Hohberg, et al.		П	COLIVED
78	5,168,537	12/1/92	Rajasekharan, et al.			RV 0. 2. 2000
13	5,202,943	4/13/93	Carden, et al.		IVI	AY 2 3 2002
AD	5,241,614	8/31/93			Tocho	Nom. Co.
79	5,259,054	11/2/93	Benzoni, et al.		1001111	ology Center 260
166	5,280,191	1/18/94	Chang			
***************************************	5,285,512	2/8/94				
130	5,289,345	2/22/94	Corradetti, et al.			

FOREIGN PATENT DOCUMENTS

Exam. Initials	Document Number	Date	Country	Class	Sub- class	Translation Yes No
13	0 652 696 A1	11/2/94	EPO			
				 		
				 		
				 		
 				 		
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				Group Art Unit	2633
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U.S. PATENT DOCUMENTS

Exam.	Document				Sub-	Filing Date
Initjals	Number	Date	Name	Class	class	(if appropriate)
70	5,295,214	3/15/94	Card, et al.			
10	5,337,396	8/9/94	Chen, et al.			
18	5,337,398	8/9/94	Benzoni, et al.			
10	5,345,524	9/6/94	Lebby, et al.			
第	5,361,244	11/1/94	Nakamura, et al.			
10	5,414,787	5/9/95	Kurata			
B	5,416,668	5/16/95				
AB	5,416,870	5/16/95				
16	5,416,871	5/16/95				
13	5,416,872	5/16/95				
10	5,428,704	6/27/95				
A	5,434,747	7/18/95				
13	5,446,814	8/29/95			H	ECEIVED
190	5,452,387	9/19/95				
13	5,455,703	10/3/95			M	Y 2 3 2002
<i>t</i>	5,462,630	7/11/95				
399)	5,473,715	12/5/95	Schofield, et al.		iechno	logy Center 260
10	5,475,783	12/12/95	Kurashima			
M	5,482,658	1/9/96				
10	5,499,311	3/12/96	DeCusatis			

FOREIGN PATENT DOCUMENTS

Exam. Initials	Document Number Date Country						Sub- class		
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U.S. PATENT DOCUMENTS

E	Description			- 	Sub-	Eiling Data
Exam.	Document				i	Filing Date
Initials	Number	Date	Name	Class	class	(if appropriate)
10	5,499,312	3/12/96	Hahn, et al.			
1/2	5,515,468	5/7/96	DeAndrea, et al.			
18	5,528,408	6/18/96	McGinley, et al.			
18	5,535,296	7/9/96	Uchida			
30	5,537,391	8/9/94	Lebby			
18	5,546,281	8/13/96	Poplawski, et al.			
16	5,548,677	8/20/96	Kakii, et al.			
16	5,550,941	8/27/96	Lebby, et al.	3	ECE	VED
10	5,561,727	10/1/96	Akita, et al.	H		74.0
133	5,596,663	1/21/97	Ishibashi, et al.		AY 2 3	2002
13	5,636,298	6/3/97	Jiang, et al.	M	AT & O	COOL
13	5,687,267	11/11/97	Uchida	To about	olomi C	-tes 2800
16	5,708,743	1/13/98	DeAndrea, et al.	160111	م لاهمان	enter 2999
AS	5,717,533	2/10/98	Poplawski, et al.			
13	5,734,558	3/31/98	Poplawski, et al.			
As	5,736,782	4/7/98	Schairer			
18	5,751,471	5/12/98	Chen, et al.			
18	5,767,999	6/16/98	Kayner			
PO 1	5,774,614	6/30/98	Gilliland,et al.			
N	5,778,127	7/7/98	Gilliland, et al.			

FOREIGN PATENT DOCUMENTS

Exam. Initials	Document Date	Country	Class	Sub- class	Translation Yes No		
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Exam.	Document	- <u> </u>			Sub-	Filing Date
Initials	Number	Date	Name	Class	class	(if appropriate)
10	5,812,582	9/22/98	Gilliland, et al.			
13	5,812,717	9/22/98	Gilliland, et al.			
13	5,815,623	9/29/98				
70	5,864,468	1/26/99	Poplawski, et al.			
16	5,879,173	3/9/99	Poplawski, et al.			
76	6,061,493	5/9/00	Gilliland, et al.			
TO_	6,071,017	6/6/00	Gilliland, et al.	l l		
13	Re 63,820	8/15/00	McGinley, et al.			
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					14	AY 2 3 2002
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STATEMENT BY APPLICANT				First Named Inventor	Edwin Dair, et al.	
				Group Art Unit	2633	
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Sheet	7	of	7	Attorney Docket Number	003918.P002XX4	

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

		OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)
Exam.	Cite	Document Identification
Initials	No.1	
18		BUCZYNSKI, et al., Fast Optical Thresholding with an Array of Optoelectronic Transceiver Elements, IEEE Photonics Technology Letters, Vol. 11, No. 3, March 1999
13		HEINRICH, et al., Low-Cost VCSEL-Transceiver Module for Optical Data Busses, IEEE, 1997
13		ROSINSKIE, et al., Multichannel Transmission of a Mulitcore Fiber Coupled with Vertical-Cavity Surface-Emitting Lasers, Journal of Lightwave Tech, Vol. 17, No. 5, May 1999
13		CROW, et al., The Jitney Parallel Optical Interconnect, 1996 Electronic Components and Technology Conference
B		R.T. CHEN and P.S. GULFOYLE (Eds.) Optoelectronic Interconnects and Packaging, Critical Reviews, Vol. CR62 (1996), Pgs. 48-63, 64-67, 229-243, 393-404, 405-414, 442-460, Spic Optical Engineering Press, Washington
A		R.G. HUNSPERGER, Integrated Optics: Theory and Technology (2nd Ed.), 1985, Pgs. 89-106, 236-245, Springer-Verlag Berlin Heidelberg, Germany
AB		A. CHATAK and K. THYAGARAJAN, Introduction to Fiber Optics, 1998, Pgs. 411-413, 447-449, 467-473, Cambridge University Press, United Kingdom
13		R.C. DORF, Electrical Engineering Handbook, 1993, Pgs. 1682-1684, CRC Press, Inc., Florida
		DECEIVED
		RECEIVED MAY 2 3 2002
		Technology Center 2600
		Technology

Examiner	VIZOU	Date Q/4//	
Signature	MALLO	Considered 7/1/87	

¹ Unique citation designation number.